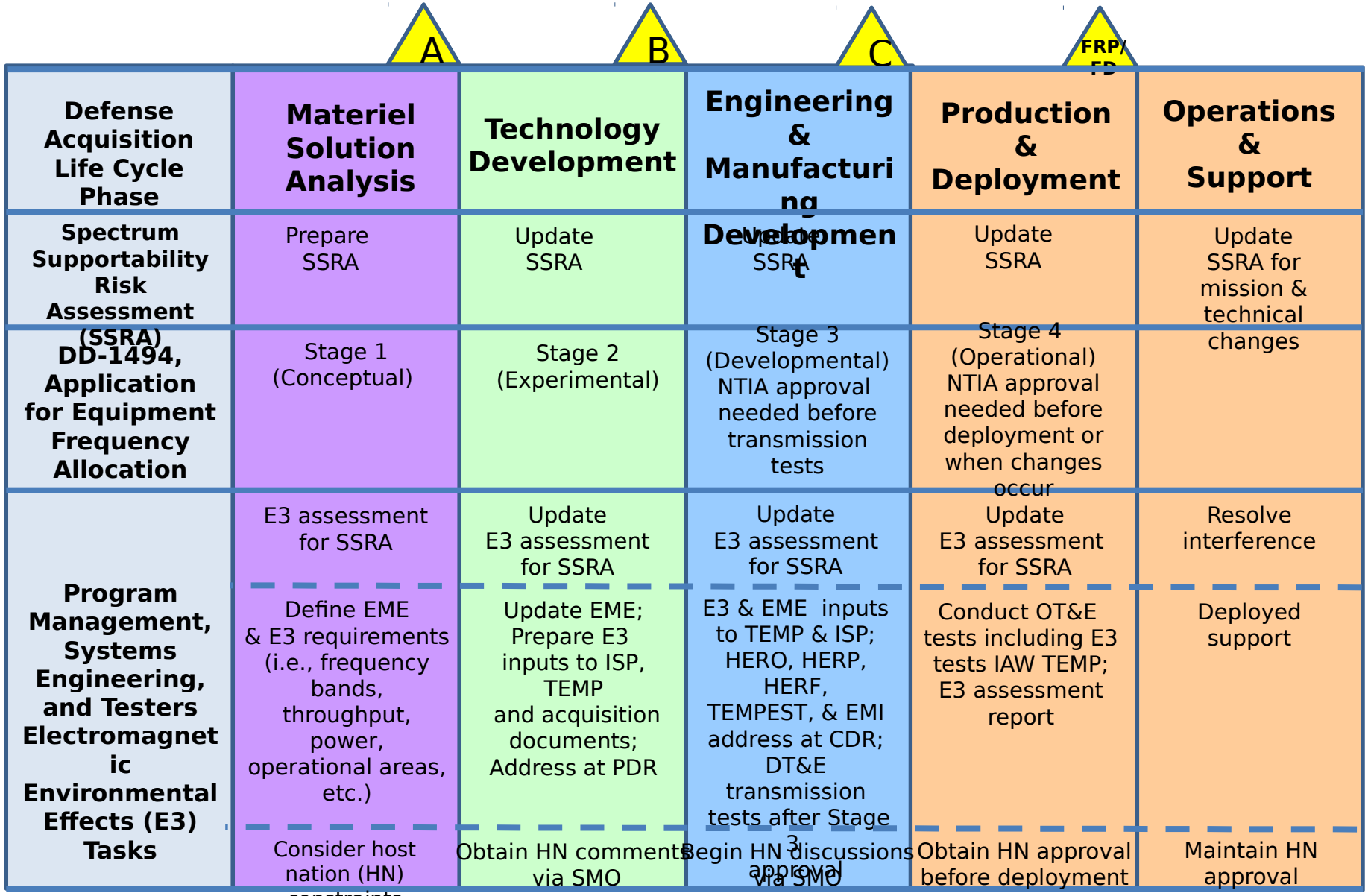
A
B
C
FRP/
FD
Defense Acquisition Life Cycle Phase
Materiel Solution Analysis
Technology Development
Engineering & Manufacturing Development
Production & Deployment
Operations & Support
Spectrum Supportability Risk Assessment (SSRA)
Prepare SSRA
Update SSRA
Update SSRA
Update SSRA
Update SSRA for mission & technical changes
DD-1494, Application for Equipment Frequency Allocation
Stage 1 (Conceptual)
Stage 2 (Experimental)
Stage 3 (Developmental) NTIA approval needed before transmission tests
Stage 4 (Operational) NTIA approval needed before deployment or when changes occur
Program Management, Systems Engineering, and Testers Electromagnetic Environmental Effects (E3) Tasks
E3 assessment for SSRA
Update E3 assessment for SSRA
Update E3 assessment for SSRA
Update E3 assessment for SSRA
Resolve interference
Define EME & E3 requirements (i.e., frequency bands, throughput, power, operational areas, etc.)
Update EME; Prepare E3 inputs to ISP, TEMP and acquisition documents; Address at PDR
E3 & EME inputs to TEMP & ISP; HERO, HERP, HERF, TEMPEST, & EMI address at CDR; DT&E transmission tests after Stage 3
Conduct OT&E tests including E3 tests IAW TEMP; E3 assessment report
Deployed support
Consider host nation (HN) constraints
Obtain HN comments via SMO
Begin HN discussions via SMO
Obtain HN approval before deployment
Maintain HN approval

CDR – Critical Design Review
DT&E – developmental test and evaluation
E3 – electromagnetic environmental effects
EME – electromagnetic environment
EMI – electromagnetic interference
ISP – Information Support Plan
HERF – hazard of electromagnetic radiation on fuel
HERO – hazard of electromagnetic radiation on ordnance
HERP – hazard of electromagnetic radiation on personnel
HN – host nation
OT&E – operational test and evaluation
PDR – Preliminary Design Review
SMO – spectrum management office
SSRA – spectrum supportability risk assessment
T&E – test and evaluation
TEMP – Test and Evaluation Master Plan